

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: April 17, 1996  
Date Received: April 11, 1996  
Project: Metro Self Monitor, PO #M 52948  
Date Samples Extracted: April 11, 1996  
Date Extracts Analyzed: April 11, 1996

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, ZINC  
USING METHOD 6010**

**Samples Processed Using Method 3005A**  
Results Reported as mg/L (ppm)

<b>Sample ID</b>	<b><u>Chromium</u></b>	<b><u>Copper</u></b>	<b><u>Nickel</u></b>	<b><u>Zinc</u></b>
M52948	0.44	0.34	0.23	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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Date of Report: April 17, 1996

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Project: Metro Self Monitor, PO #M 52948

**QUALITY ASSURANCE RESULTS  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)  
Samples Processed Using Method 3005A**

Laboratory Code: 67839 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.44	0.41	7	0-20
Copper	mg/L (ppm)	0.34	0.31	9	0-20
Nickel	mg/L (ppm)	0.23	0.22	4	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 67839 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	0.44	106	112	80-120	6
Copper	mg/L (ppm)	5	0.34	107	113	80-120	5
Nickel	mg/L (ppm)	10	0.23	106	113	80-120	6
Zinc	mg/L (ppm)	5	<0.05	108	114	80-120	5

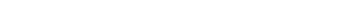
Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	112	111	80-120	1
Copper	mg/L (ppm)	5	112	111	80-120	1
Nickel	mg/L (ppm)	10	116	116	80-120	0
Zinc	mg/L (ppm)	5	116	116	80-120	0

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

KWJ AI  
4.11.96  
11:40

Send Report To: Alaskan Copper Works Contact: GERARD Thompson  
Company: \_\_\_\_\_  
Address: 28 HANFORD ST.  
City, State, Zip: Seattle WA 98134  
Phone # (6) 382-8379 Date: 4-11-96

SAMPLE (signature)	PROJECT LOCATION
	3200 6 <sup>th</sup> Ave S

[illegible]

PRINT NAME	COMPANY	Date	Time
GERALD Thompson	A.C.W	4/11/96	11:00
Cathy Downing	FBI	4/11/96	11:00

AKC-001224

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman  
James E. Bruya, Ph.D.  
(206) 285-8282

3012 16th Avenue West  
Seattle, WA 98119-2029  
FAX: (206) 283-5044

April 17, 1996

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on April 11, 1996 from your Metro Self Monitor, PO #M 52948 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson  
Chemist

keh  
Enclosures  
FAX: 382-7335  
ACU0417R.DOC

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

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April 17, 1996

**INVOICE # 96ACU0417-1  
DUPLICATE COPY**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M 52948: Results of testing requested by  
Gerry Thompson, Project Manager for material submitted on April 11, 1996.

1 water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due .....

\$ 65.00